



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
CHAMBERS WORKS
DEEPWATER, NEW JERSEY 08023

bcc:

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ECD File 4145060

45250

ORIGINAL


September 12, 1986

Mr. Michael Apgar
Professional Geologist
Department of Natural Resources
& Environmental Control
State of Delaware
89 King's Highway Box 1401
Dover, DE 19903

Dear Mr. Apgar:

HOLLY RUN PLANT*
GROUNDWATER REPORTS - Fourth Quarter 1985 and First Quarter 1986

Attached are our groundwater reports for the fourth quarter of 1985 and the first quarter of 1986. For further information, please contact me at (609) 540-2173.



Peter E. Kress
Environmental Consultant

*formally the Newport Pigments Plant

PEK/lrw
Attachment
1261W/0029W

AR200824

First Quarter 1986
HOLLY RUN PLANT
Groundwater Monitoring
Sampled 2-25-86 and 2-26-86

07121
(622)

Depths and River Levels Measured
(all results in mg/l, except PH)

| <u>Well</u> | <u>Barium</u> | <u>Cadmium</u> | <u>Zinc</u> | <u>Sulfate</u> <u>As So4</u> | <u>PH</u> | <u>Depth (Ft.)</u> <u>Ground to Water</u> | <u>Tidal Guage(1)</u> <u>Reading (Ft.)</u> |
|-------------|---------------|----------------|-------------|---------------------------------|-----------|--|---|
| SM-1 | 68. | <0.01 | 0.06 | 7 | 7.5 | 16.11 | |
| SM-2 | 0.10 | <0.01 | 0.08 | 38 | 6.0 | 4.25 | |
| SM-3 | 0.80 | <0.01 | 8.9 | 45 | 7.0 | 18.75 | |
| SM-4 | <0.10 | 0.73 | 190 | 87 | 5.9 | -1.51 | |
| SM-5 | <0.1 | <0.01 | 0.39 | 67 | 5.5 | 5.79 | |
| DM-6 | 0.18 | 0.02 | 3.9 | 69 | 5.5 | -2.7 | |
| DMU-7 | 0.22 | <0.01 | <0.05 | 5 | 6.6 | 7.77 | |
| DML-7 | 0.17 | <0.01 | <0.05 | 28 | 6.9 | 6.38 | |
| DM-8 | <0.1 | 0.15 | 4.8 | 46 | 5.6 | 6.66 | |
| WW-11 | <0.1 | <0.01 | 0.05 | <5 | 5.5 | 2.03 | |
| WW-13 | <0.10 | <0.01 | 0.07 | <5 | 6.1 | 9.98 | |

(1) Due to construction work on the old 141 bridge, tidal guage readings could not be taken.

DM-5 As mentioned in an earlier telephone conversation, we have determined that a mix-up occurred involving DM-4 and DM-5. In the early 80's, DM-4 was believed to have lost its integrity and was leaking. We now believe that in the field work when DM-4 was to be sealed, it was actually DM-5 that was sealed. Hence, data reported since then from DM-5 is really from the original DM-4. We will be working with our well driller to replace this well in the near future.

PEK/lrw
9/9/86
1261W/DK#0029W

AR200825

Fourth Quarter 1985
HOLLY RUN PLANT
Groundwater Monitoring
Sampled 12-26-85 and 12-31-85

Depths and River Levels Measured
(all results in mg/l, except PH)

| <u>Well</u> | <u>Barium</u> | <u>Cadmium</u> | <u>Zinc</u> | <u>Sulfate</u> <u>As So₄</u> | <u>PH</u> | <u>Depth (Ft.)</u> <u>Ground to Water</u> | <u>Tidal Guage(1)</u> <u>Reading (Ft.)</u> |
|-------------|---------------|----------------|-------------|--|-----------|--|---|
| SM-1 | 67. | <0.01 | 0.05 | <5 | 7.8 | 16.9 | 9.3 |
| SM-2 | <0.10 | <0.01 | <0.05 | 27 | 5.7 | 5.58 | 9.5 |
| SM-3 | 0.91 | <0.01 | 12. | 75 | 6.9 | 18.92 | 9.3 |
| SM-4 | 0.12 | 0.67 | 200 | 170 | 5.8 | -1.38 | 9.5 |
| SM-5 | <0.10 | <0.01 | 0.50 | 78 | 5.5 | 6.79 | 9.0 |
| DM-6 | 0.18 | <0.01 | 3.0 | 63 | 5.4 | -2.7 | (2) |
| U-7 | 0.28 | <0.01 | <0.05 | 12 | 6.3 | 7.52 | 9.2 |
| DML-7 | 0.15 | <0.01 | <0.05 | 32 | 7.2 | 6.88 | 9.0 |
| DM-8 | <0.10 | 0.15 | 4.8 | 57 | 5.8 | 7.33 | 9.1 |
| WW-11 | <0.10 | <0.01 | 0.06 | <5 | 5.5 | 3.03 | 8.1 |
| WW-13 | <0.10 | <0.01 | 0.09 | <5 | 5.7 | 10.82 | 8.1 |

(1) Readings taken from level of bridge surface (side walk) to water level.

(2) No tide reading taken, DM-6 was frozen.

DM-5 Results are not recorded due to an investigation that was under way for a possible breach or obstruction.

PEK/lrw
9/9/86
1261W/Dk#0029W

AR200826